REPORT No.: SZ25020263W03

TEST REPORT

APPLICANT	:	Linkplay Technology Inc.
PRODUCT NAME	:	WiiM Amp Ultra
MODEL NAME	:	AMP003
BRAND NAME	:	WiiM
FCC ID	:	2BABF-AMP003
STANDARD(S)	:	47 CFR Part 15 Subpart C
RECEIPT DATE	:	2025-03-19
TEST DATE	:	2025-04-15 to 2025-05-09
ISSUE DATE	:	2025-05-19

Edited by: Zeng Xiaoying (Rapporteur)

Approved by: Shen Junsheng (Supervisor)

MORLAB

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DIRECTORY

Change History		
Version	Date	Reason for change
1.0	2025-05-19	First edition

1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	N/A$_{Note1}$	N/A
2	N/A	Duty Cycle of Test Signal	N/A	N/A	N/A$_{Note1}$	N/A
3	15.247(b)	Maximum Peak Conducted Output Power	N/A	N/A	N/A$_{Note1}$	N/A
4	15.247(b)	Maximum Average Conducted Output Power	N/A	N/A	N/A$_{Note1}$	N/A
5	15.247(a)	Bandwidth	N/A	N/A	N/A$_{Note1}$	N/A
6	15.247(d)	Conducted Spurious Emission and Band Edge	N/A	N/A	N/A$_{Note1}$	N/A
7	15.247(e)	Power Spectral Density	N/A	N/A	N/A$_{Note1}$	N/A
8	15.207	Conducted Emission	May 09, 2025	Fan Shengquan	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Apr. 09, 2025	Gao Jianrou	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Apr. 22, 2025	Gao Jianrou	PASS	No deviation

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ24040154W03), which issued on Jul. 26, 2024.

Note 2: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the

judgment result based on the 95% confidence intervals.

1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

• 47 CFR Part 15 Subpart C Radio Frequency Devices

1.2. Test Equipment List

1.2.1 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2025.01.06	2026.01.05
LISN	8127449	NSLK 8127	Schwarzbeck	2025.01.09	2026.01.08
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2024.05.30	2025.05.29
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2024.07.02	2025.07.01

1.2.2 List of Software Used

Description	Manufacturer	Software Version
JS32-RE	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	2.5.0.0

1.2.3 Radiated Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29

1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone	+86 755 36698555
Facsimile	+86 755 36698525
FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174

2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Linkplay Technology Inc.
Applicant Address	8000 Jarvis Avenue Suite #130, Newark, CA 94560
Manufacturer	Linkplay Technology Inc.
Manufacturer Address	8000 Jarvis Avenue Suite #130, Newark, CA 94560

2.2. Information of EUT

Product Name:	WiiM Amp Ultra
Sample No.:	4#, 25#
Hardware Version:	A98D V02+Main Board V02
Software Version:	Linkplay.5.2.708867
Modulation Technology:	DSSS, OFDM, OFDMA
Modulation Type:	Refer to section2.3
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11ax (HEW20)
Operating Frequency Range:	2412MHz–2462MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	ANT1: 3.46dBi; ANT2: 3.46dBi

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ24040154W03), which issued on Jul. 26, 2024. We only recorded the radiated test result in this report.

Note 2: The EUT has two antennas and it operates in single antenna. Both of the two antennas were evaluated separately, only the worst test result (ANT1) were recorded in the test report.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2.3. Channel List of EUT

Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	**1**	**2412**	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	**11**	**2462**
	5	2432		
	6	**2437**		
	7	2442		

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

2.4.1.Modulation Type and Data Rate of EUT

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate	RU Size
802.11b	20	DSSS	**DBPSK**	**1**/2/5.5/11Mbps	N/A
			DQPSK		
			CCK		
802.11g	20	OFDM	**BPSK**	**6**/9/12/18/24/36/48/54 Mbps	N/A
			QPSK		
			16QAM		
			64QAM		
802.11n	20 (HT20/40)	OFDM	**BPSK**	**MCS0**~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		
802.11ax	20 (HEW20)	OFDM/ OFDMA	**BPSK**	**MSC0**~MCS11	26/52/106
			QPSK		
			16QAM		
			64QAM		
			256QAM		
			1024QAM		

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.4.2.802.11ax RU Allocation

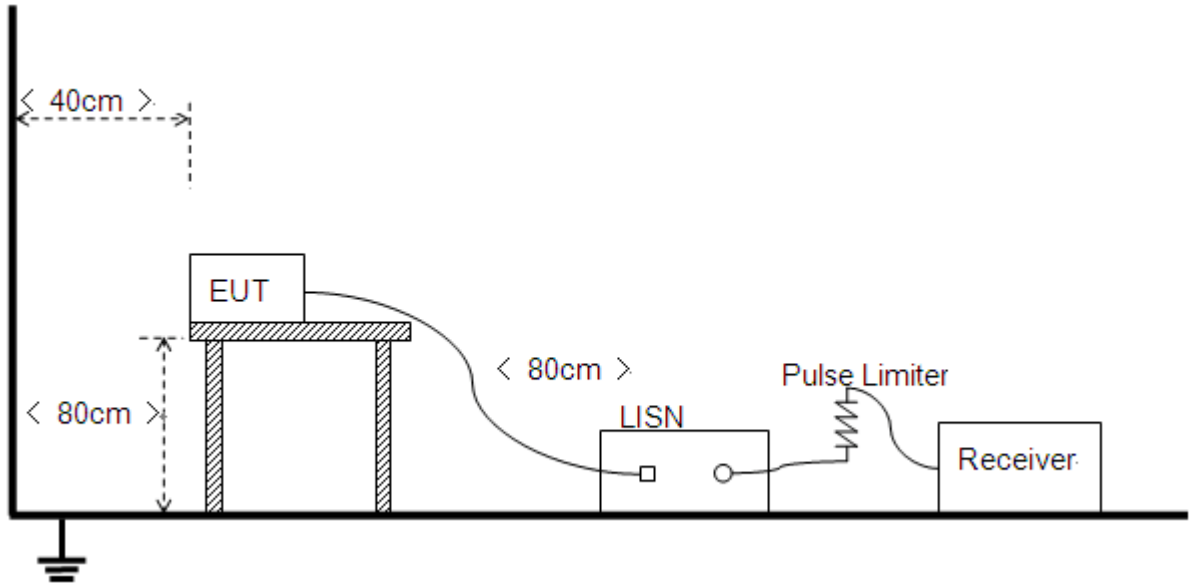
BW (MHz)	RU Size			User	RU Offset
	Full (Tone)	Partial			
		(Tone)	BW (MHz)		
20	242	26	2	9	@0/1/2/3/4/5/6/7/8
		52	4	4	@37/38/39/40
		106	8	2	@53/54

2.5. Test Conditions

Temperature (°C)	15–35
Relative Humidity (%)	30–60
Atmospheric Pressure (kPa)	86–106

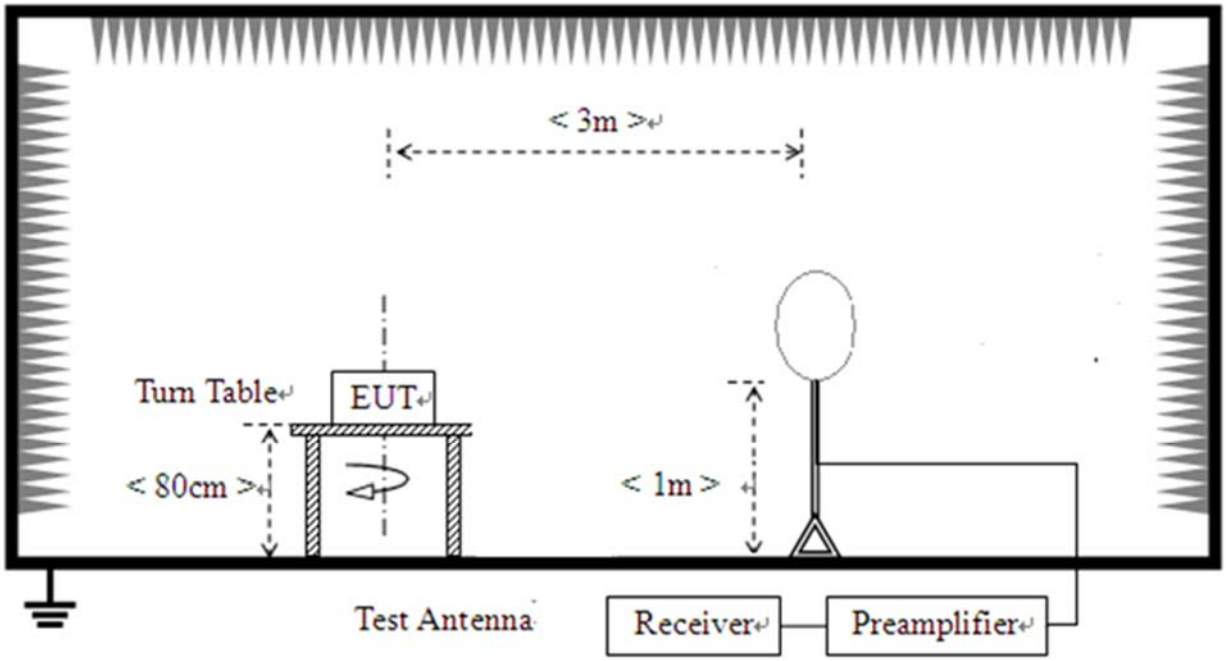
2.6. Test Setup Layout Diagram

2.6.1. Conducted Emission Measurement

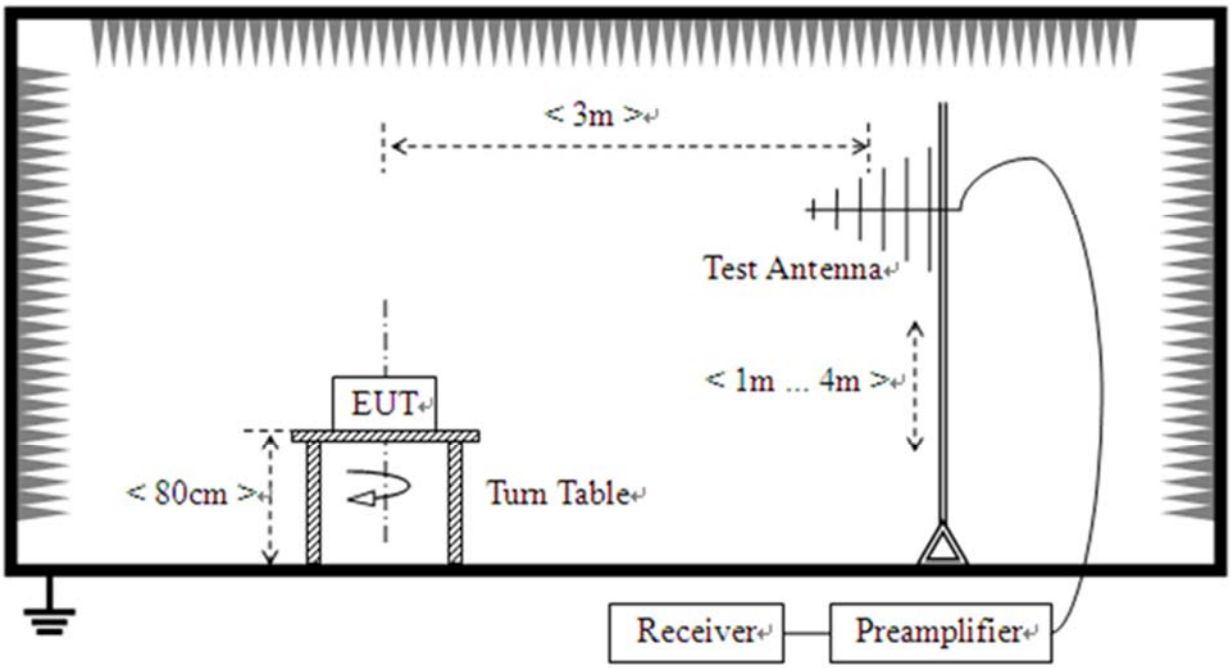


2.6.2.Radiation Measurement

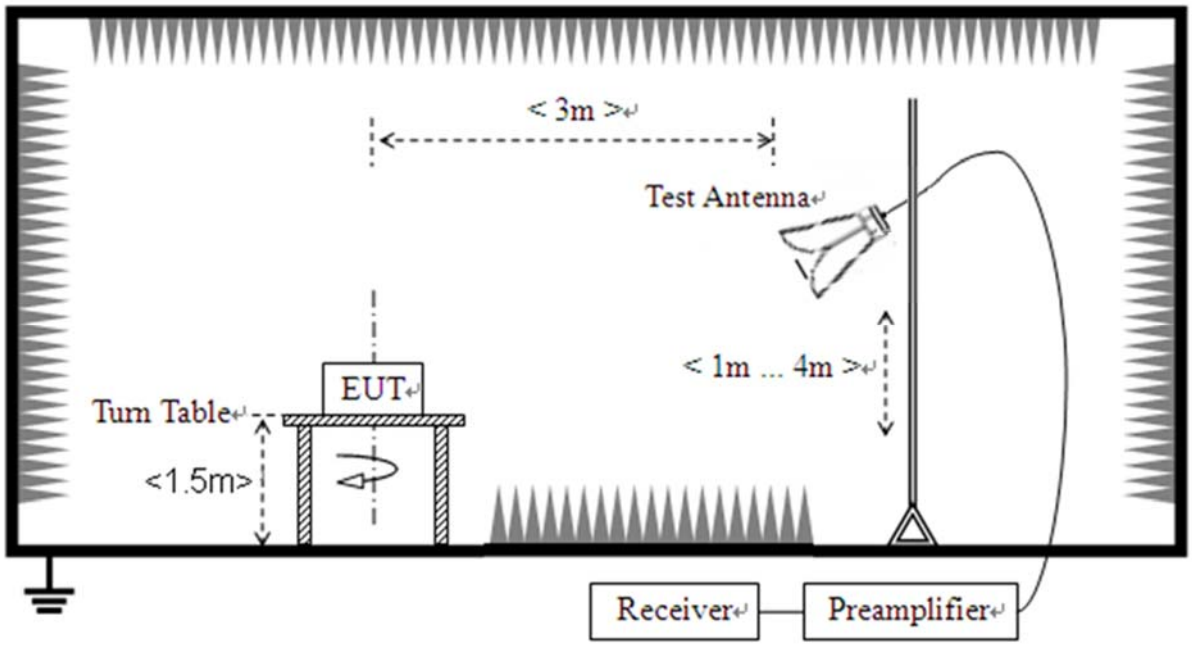
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



3. Test Results

3.1. Conducted Emission

3.1.1.Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.1.2.Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

3.1.3.Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.1.4.Test Result

Refer to Annex A.1 in this report.

3.2. Restricted Frequency Bands

3.2.1.Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

3.2.2.Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.
For the Test Antenna:
Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1GHz
VBW = 3 MHz
Sweep = auto
Detector function = peak/average
Trace = max hold
Allow the trace to stabilize

3.2.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.2.4.Test Result

Refer to Annex A.2 in this report.

3.3. Radiated Emission

3.3.1.Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

3.3.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz.The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.3.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.3.4.Test Result

Refer to Annex A.3 in this report.

Annex A Test Data and Result

A.1. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+TV+HDMI cable+Load+Fiber box+Mobile phone+Audio+U disk+WIFI TX

Test voltage: AC 120V/60Hz

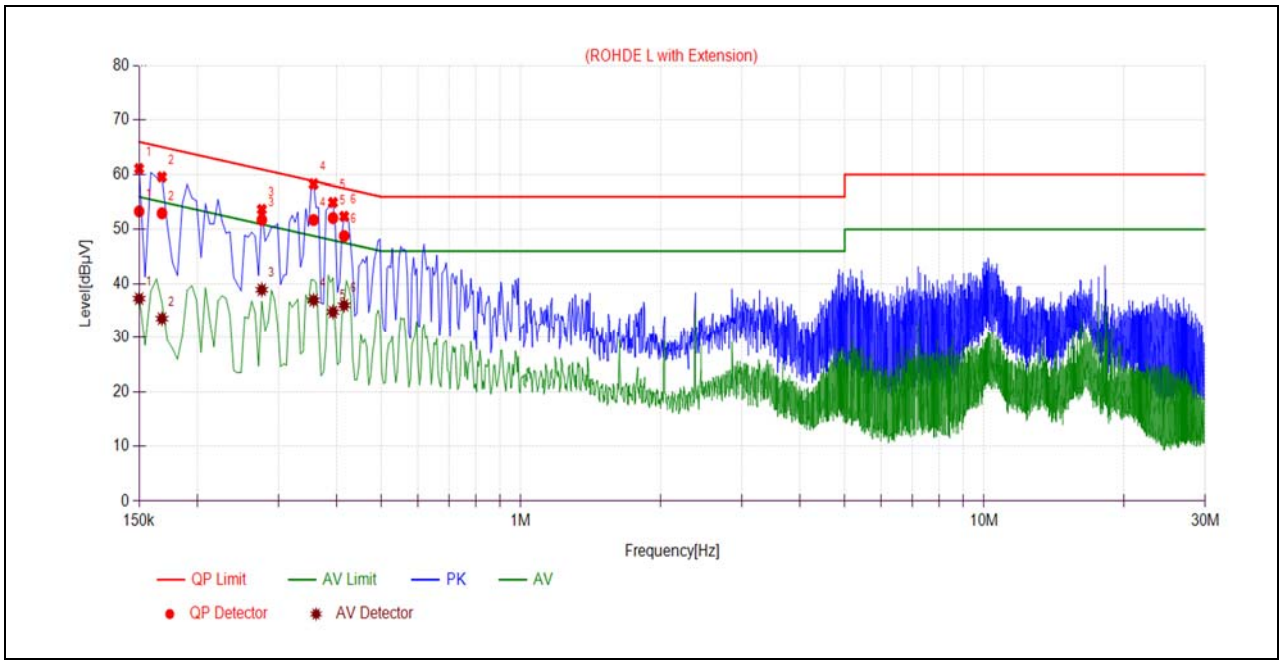
The measurement results are obtained as below:

$E\ [dB\mu V] = U_R + L_{Cable\ loss}\ [dB] + A_{Factor}$

U_R: Receiver Reading

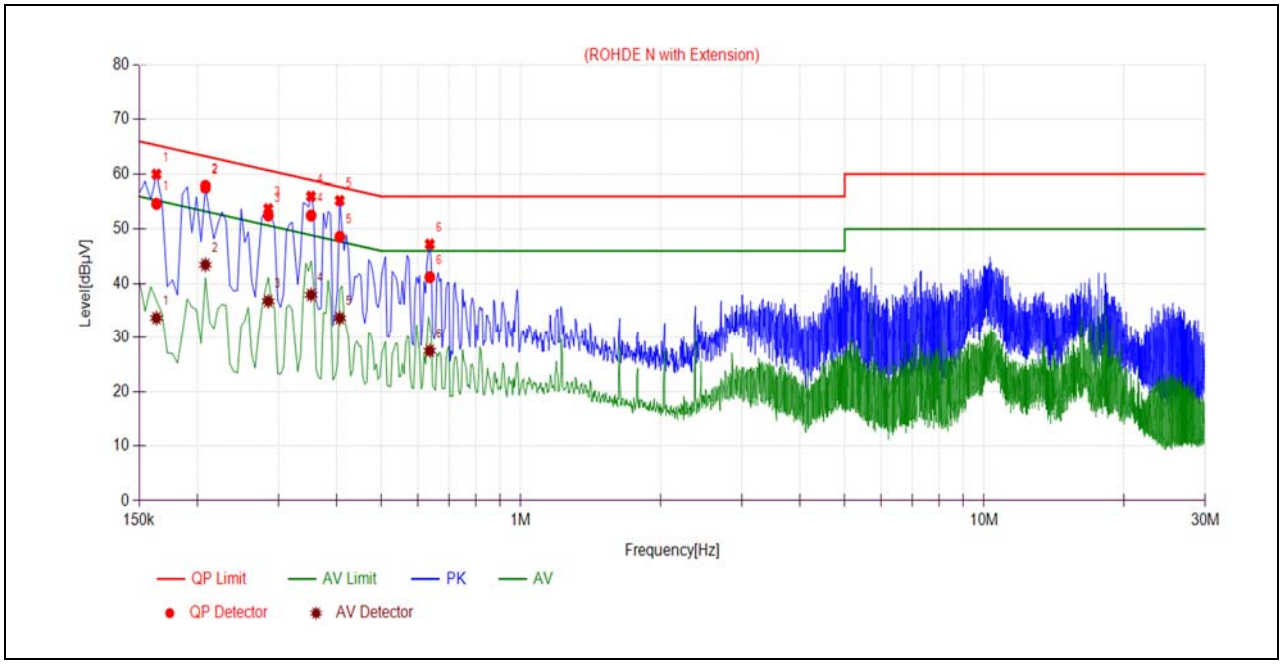
A_{Factor}: Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	53.33	37.26	66.00	56.00	Line	PASS
2	0.1680	52.97	33.56	65.06	55.06		PASS
3	0.2760	51.76	38.90	60.93	50.93		PASS
4	0.3570	51.74	36.96	58.80	48.80		PASS
5	0.3930	52.11	34.81	58.00	48.00		PASS
6	0.4155	48.78	36.04	57.54	47.54		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1635	54.66	33.67	65.28	55.28	Neutral	PASS
2	0.2085	57.82	43.47	63.26	53.26		PASS
3	0.2850	52.51	36.78	60.67	50.67		PASS
4	0.3525	52.50	37.94	58.90	48.90		PASS
5	0.4065	48.61	33.65	57.72	47.72		PASS
6	0.6360	41.19	27.49	56.00	46.00		PASS

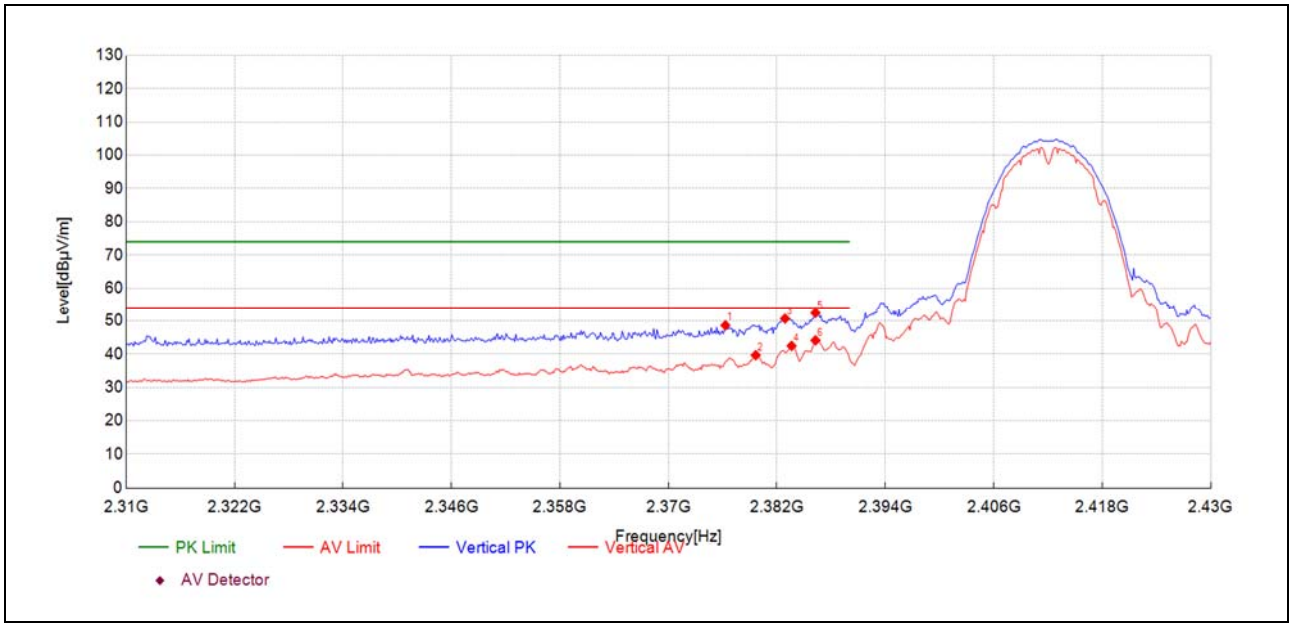
A.2. Restricted Frequency Bands

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Vertical) was recorded in this test report.

Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

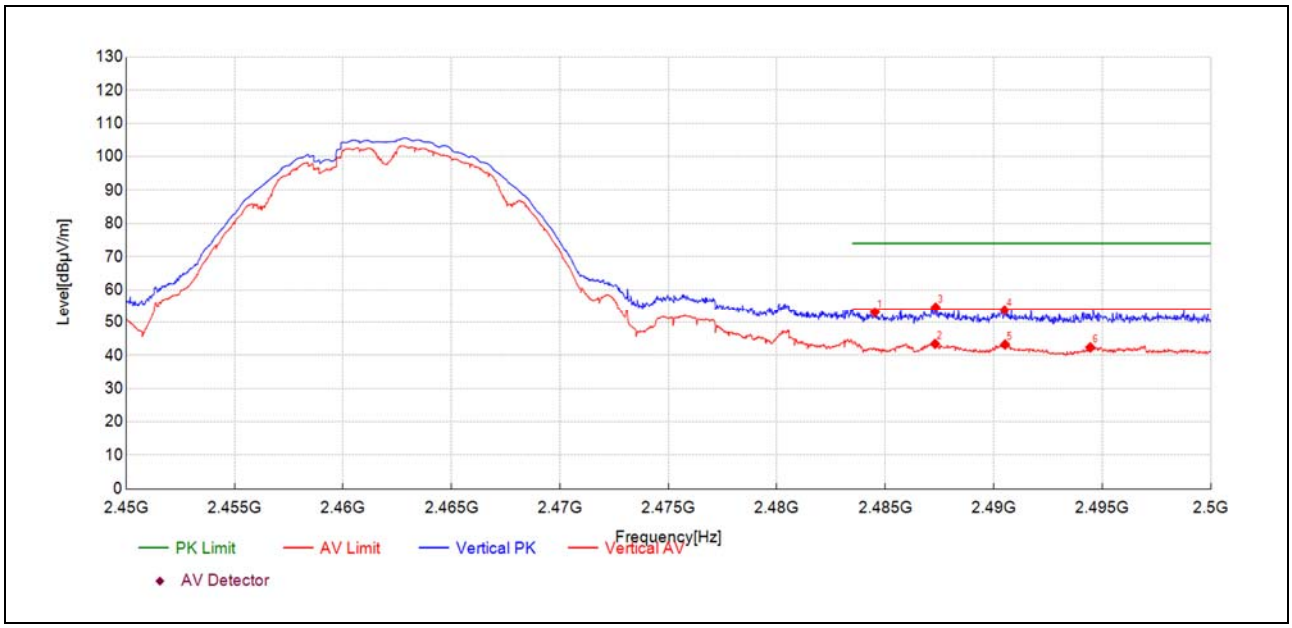
802.11b Mode

Plot for Channel 1



Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2376.31	16.1	48.59	32.490	74.00	25.41	150	226	PK	PASS
2379.67	7.1	39.63	32.510	54.00	14.37	150	226	AV	PASS
2382.91	18.1	50.63	32.520	74.00	23.37	150	226	PK	PASS
2383.63	9.9	42.42	32.520	54.00	11.58	150	226	AV	PASS
2386.28	19.8	52.35	32.530	74.00	21.65	150	226	PK	PASS
2386.28	11.6	44.08	32.530	54.00	9.92	150	226	AV	PASS

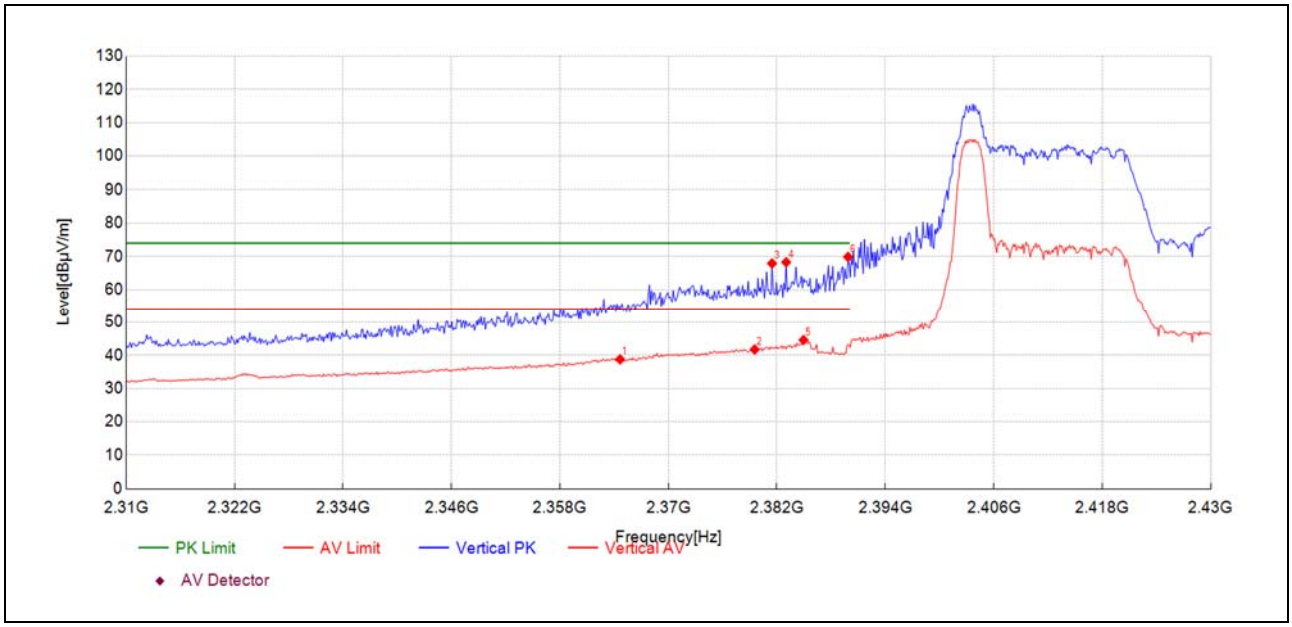
Plot for Channel 11



Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.52	20.0	53.04	33.030	74.00	20.96	150	227	PK	PASS
2487.29	10.4	43.43	33.030	54.00	10.57	150	227	AV	PASS
2487.32	21.6	54.61	33.030	74.00	19.39	150	227	PK	PASS
2490.50	20.7	53.72	33.020	74.00	20.28	150	227	PK	PASS
2490.52	10.2	43.23	33.020	54.00	10.77	150	227	AV	PASS
2494.45	9.4	42.38	33.010	54.00	11.62	150	227	AV	PASS

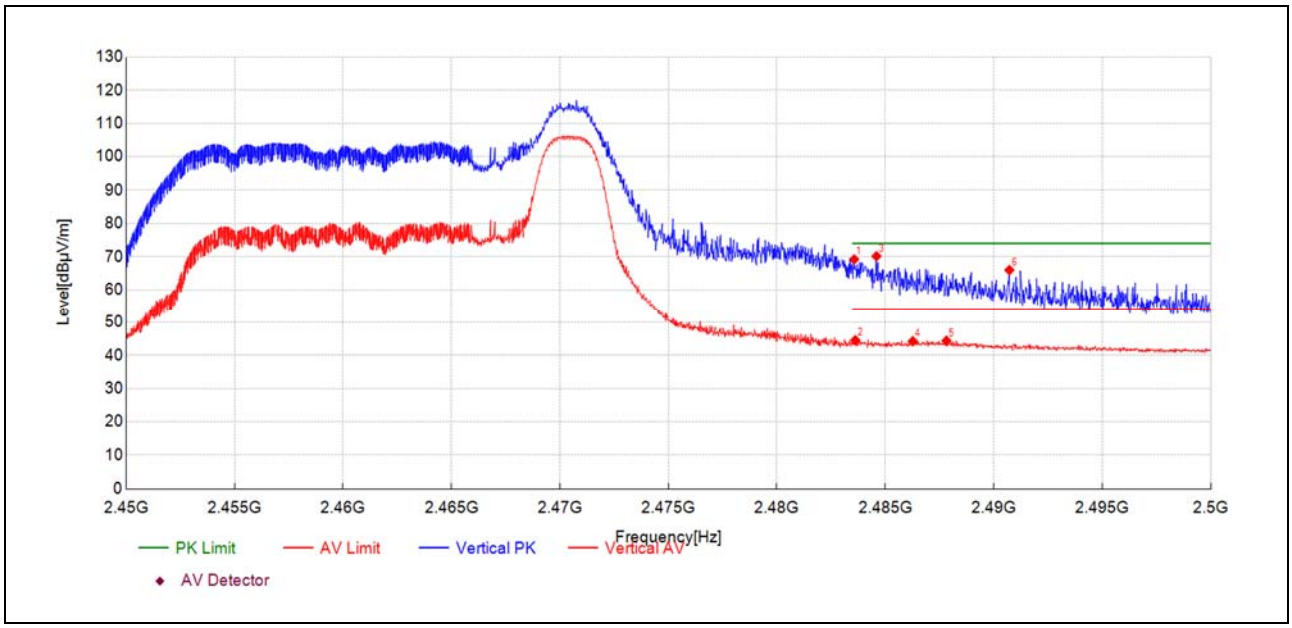
802.11ax (HEW20) RU26 Mode

Plot for Channel 1



Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2364.65	6.3	38.76	32.450	54.00	15.24	150	225	AV	PASS
2379.55	9.2	41.71	32.510	54.00	12.29	150	225	AV	PASS
2381.47	35.4	67.89	32.510	74.00	6.11	150	293	PK	PASS
2383.03	35.7	68.26	32.520	74.00	5.74	150	274	PK	PASS
2384.95	12.0	44.56	32.530	54.00	9.44	150	225	AV	PASS
2389.88	37.3	69.87	32.540	74.00	4.13	150	233	PK	PASS

Plot for Channel 11



Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.57	36.2	69.18	33.030	74.00	4.82	150	218	PK	PASS
2483.62	11.5	44.54	33.030	54.00	9.46	150	227	AV	PASS
2484.59	37.1	70.13	33.030	74.00	3.87	150	218	PK	PASS
2486.27	11.2	44.23	33.030	54.00	9.77	150	218	AV	PASS
2487.82	11.4	44.37	33.020	54.00	9.63	150	227	AV	PASS
2490.72	32.9	65.95	33.020	74.00	8.05	150	218	PK	PASS

A.3. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

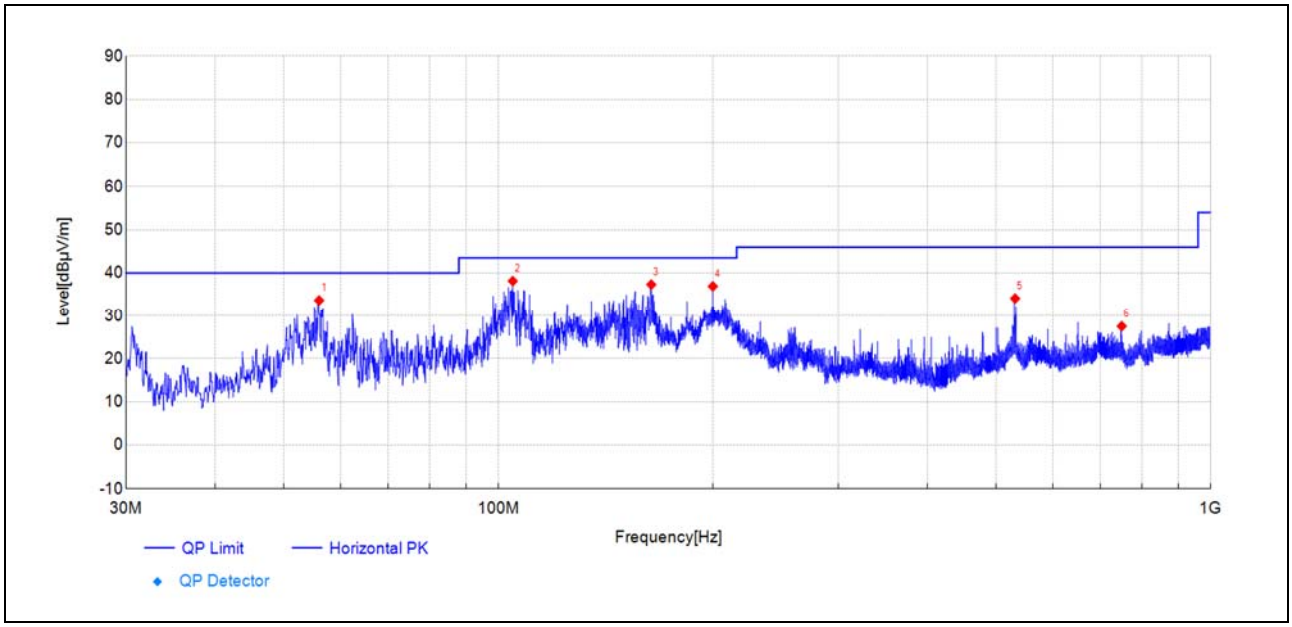
Note 2: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

Note 3: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

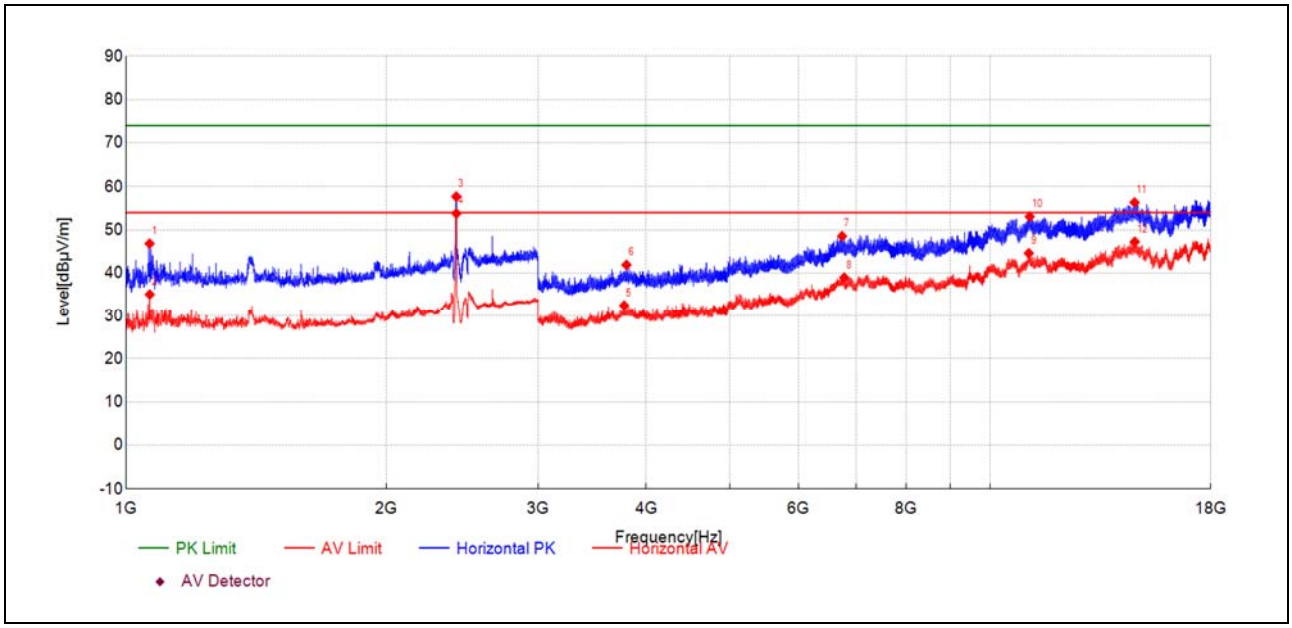
802.11b Mode

Plot for Channel 1



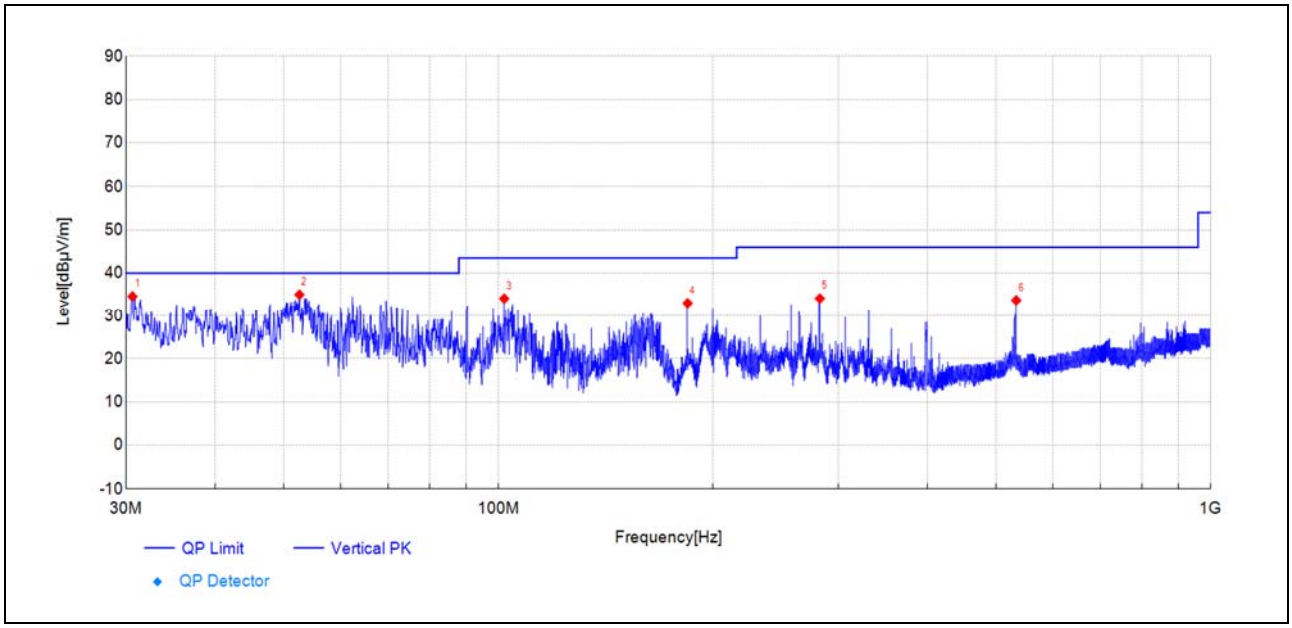
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
56.00	61.7	33.63	-28.050	40.00	6.37	150	9	PK	PASS
104.74	67.4	38.13	-29.300	43.50	5.37	150	340	PK	PASS
163.92	68.4	37.32	-31.050	43.50	6.18	150	176	PK	PASS
200.00	65.7	36.91	-28.780	43.50	6.59	150	78	PK	PASS
531.27	53.0	34.08	-18.940	46.00	11.92	150	190	PK	PASS
750.02	42.4	27.51	-14.840	46.00	18.49	150	206	PK	PASS



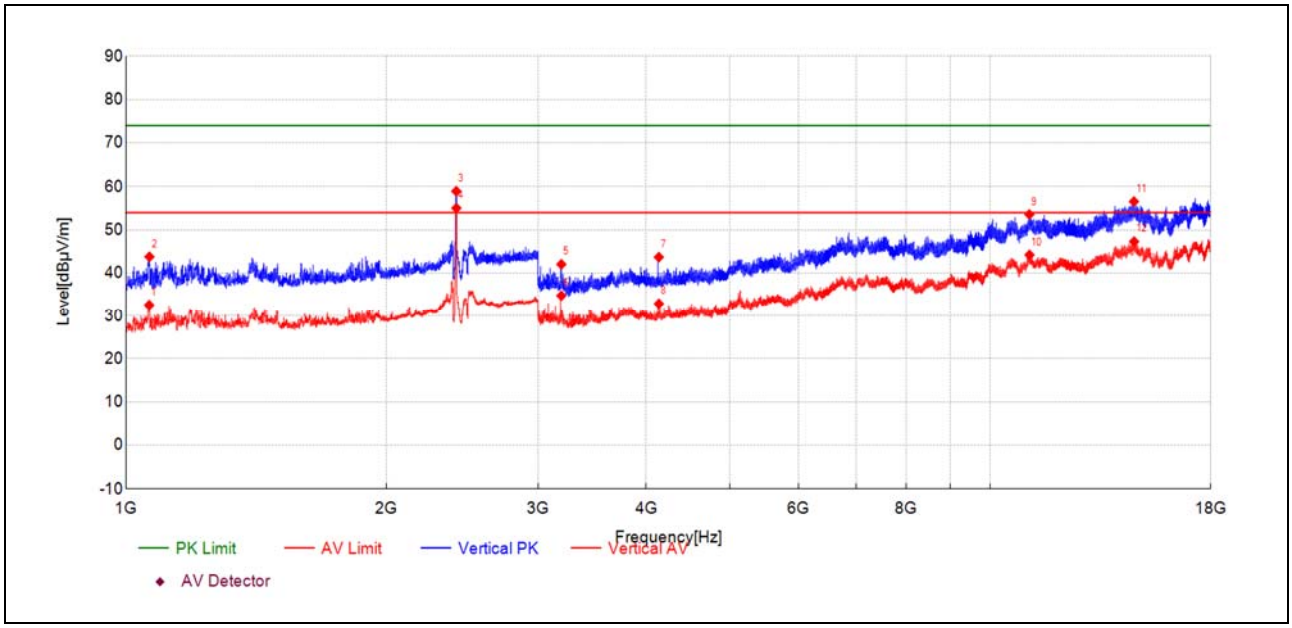
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1064.81	49.4	46.82	-2.620	74.00	27.18	150	49	PK	PASS
1065.21	37.7	35.05	-2.620	54.00	18.95	150	49	AV	PASS
2410.68	52.3	57.72	5.380	-	-	150	314	PK	NA
2411.48	48.4	53.80	5.390	-	-	150	319	AV	NA
3771.02	40.8	32.46	-8.350	54.00	21.54	150	186	AV	PASS
3794.59	50.1	41.90	-8.180	74.00	32.10	150	12	PK	PASS
6740.25	44.5	48.56	4.100	74.00	25.44	150	186	PK	PASS
6779.25	35.1	38.95	3.890	54.00	15.05	150	311	AV	PASS
11086.52	30.7	44.59	13.900	54.00	9.41	150	25	AV	PASS
11113.95	39.1	53.08	14.000	74.00	20.92	150	40	PK	PASS
14693.48	35.8	56.35	20.590	74.00	17.65	150	271	PK	PASS
14705.05	26.7	47.26	20.550	54.00	6.74	150	79	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

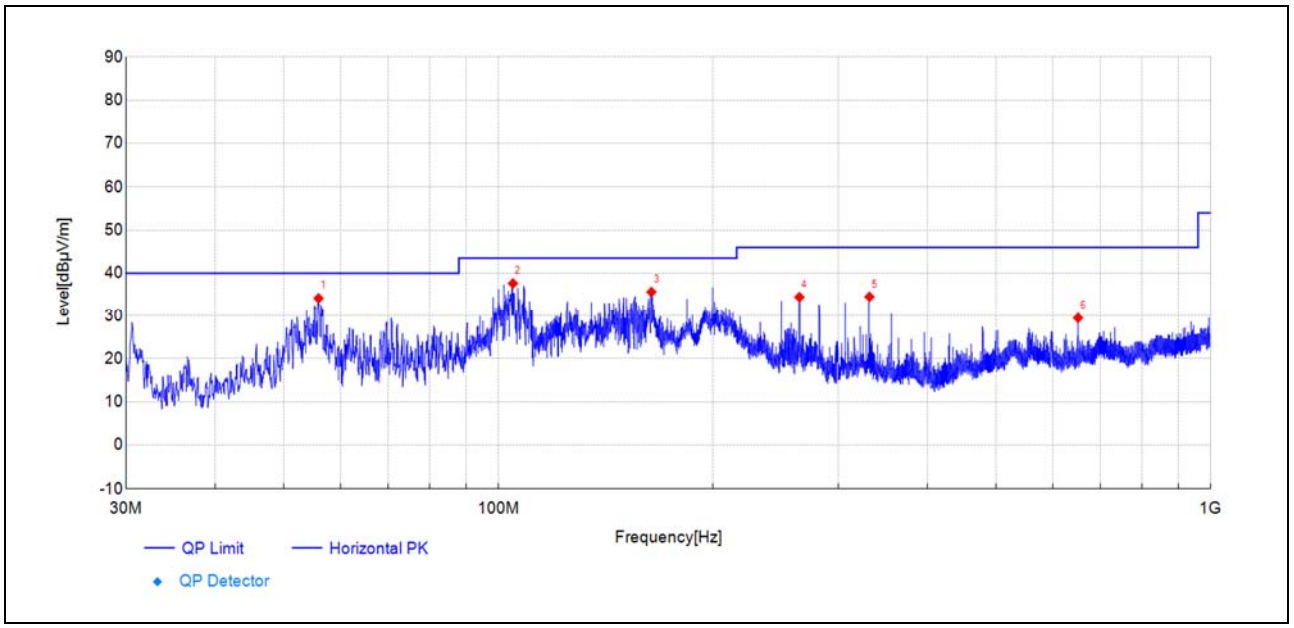
Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
30.63	65.4	34.60	-30.750	40.00	5.40	150	317	PK	PASS
52.55	62.9	34.99	-27.860	40.00	5.01	150	310	PK	PASS
101.88	63.7	34.08	-29.600	43.50	9.42	150	131	PK	PASS
184.33	63.1	33.01	-30.090	43.50	10.49	150	239	PK	PASS
282.65	60.4	34.11	-26.310	46.00	11.89	150	273	PK	PASS
533.26	52.7	33.69	-19.030	46.00	12.31	150	246	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

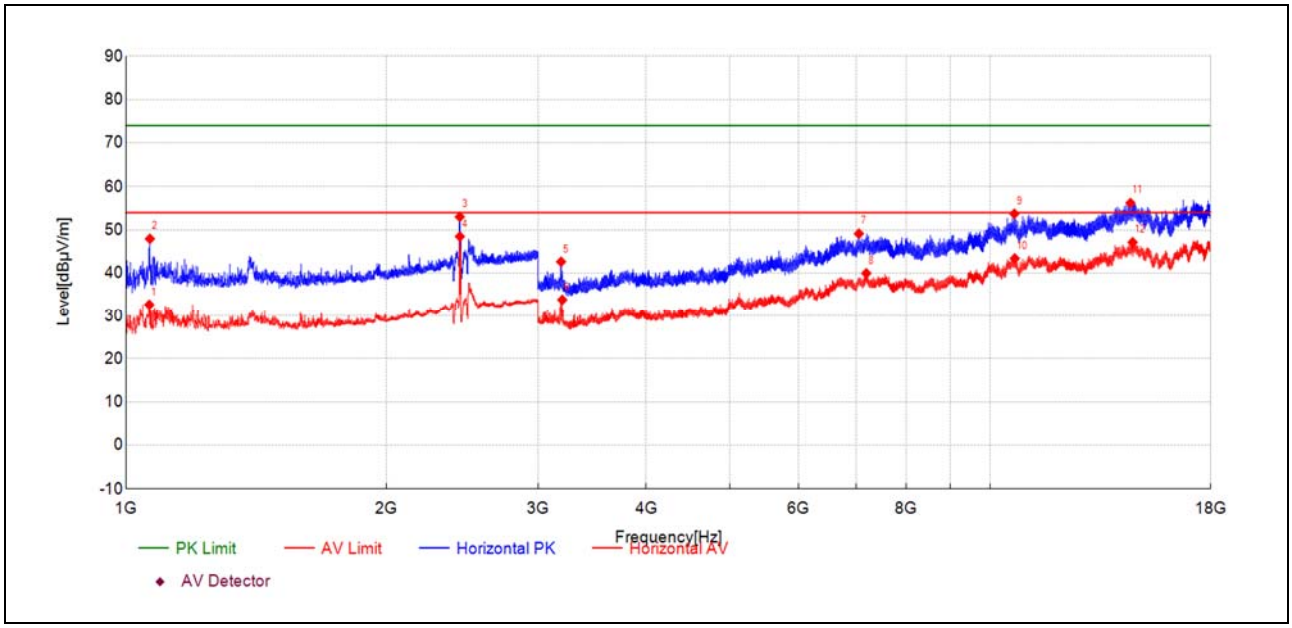
Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1063.61	35.2	32.57	-2.640	54.00	21.43	150	88	AV	PASS
1064.41	46.4	43.80	-2.620	74.00	30.20	150	66	PK	PASS
2410.68	53.6	58.96	5.380	-	-	150	232	PK	NA
2411.48	49.7	55.05	5.390	-	-	150	237	AV	NA
3189.86	52.8	42.05	-10.760	74.00	31.95	150	150	PK	PASS
3189.86	45.5	34.76	-10.760	54.00	19.24	150	150	AV	PASS
4136.18	51.8	43.70	-8.060	74.00	30.30	150	110	PK	PASS
4137.03	40.9	32.89	-8.050	54.00	21.11	150	110	AV	PASS
11102.80	39.5	53.58	14.070	74.00	20.42	150	3	PK	PASS
11106.23	30.2	44.23	14.040	54.00	9.77	150	69	AV	PASS
14672.90	36.0	56.57	20.530	74.00	17.43	150	95	PK	PASS
14676.33	26.8	47.31	20.540	54.00	6.69	150	202	AV	PASS

Plot for Channel 6



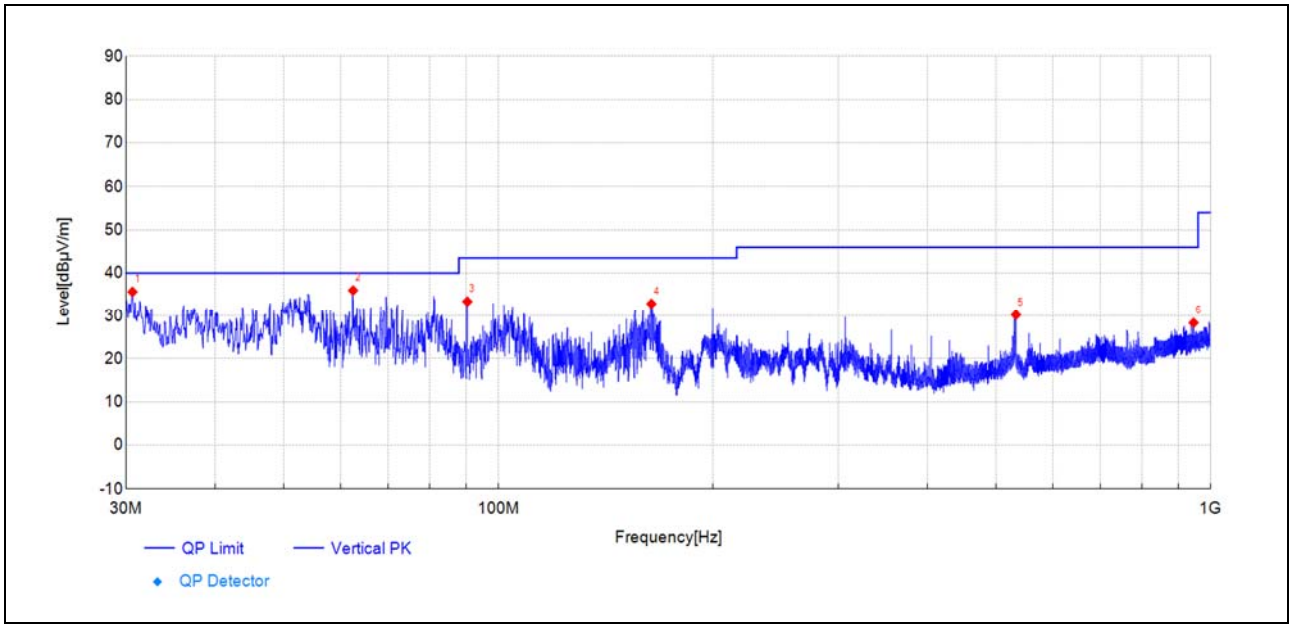
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
55.90	62.2	34.15	-28.020	40.00	5.85	150	3	PK	PASS
104.79	66.9	37.62	-29.270	43.50	5.88	150	309	PK	PASS
163.96	66.7	35.63	-31.040	43.50	7.87	150	189	PK	PASS
264.56	61.9	34.43	-27.480	46.00	11.57	150	168	PK	PASS
331.78	58.9	34.50	-24.390	46.00	11.50	150	175	PK	PASS
651.27	46.2	29.46	-16.720	46.00	16.54	150	296	PK	PASS



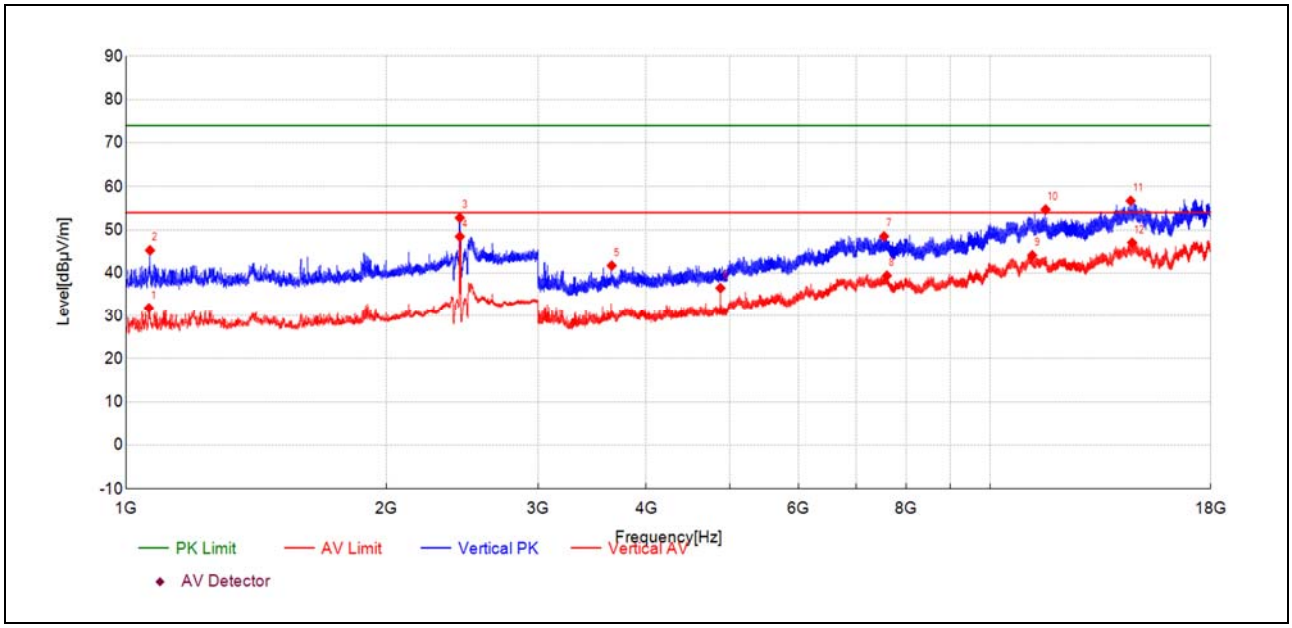
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1064.01	35.3	32.65	-2.620	54.00	21.35	150	54	AV	PASS
1065.61	50.6	47.94	-2.620	74.00	26.06	150	54	PK	PASS
2433.49	47.3	53.03	5.720	-	-	150	328	PK	NA
2434.29	42.7	48.48	5.740	-	-	150	322	AV	NA
3187.72	53.4	42.63	-10.740	74.00	31.37	150	324	PK	PASS
3198.01	44.6	33.80	-10.830	54.00	20.20	150	324	AV	PASS
7048.83	44.8	49.14	4.340	74.00	24.86	150	283	PK	PASS
7188.98	35.0	39.97	5.000	54.00	14.03	150	190	AV	PASS
10666.93	41.4	53.74	12.340	74.00	20.26	150	110	PK	PASS
10678.08	31.0	43.39	12.380	54.00	10.61	150	0	AV	PASS
14535.33	36.2	56.23	19.990	74.00	17.77	150	69	PK	PASS
14618.90	26.8	47.14	20.380	54.00	6.86	150	296	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

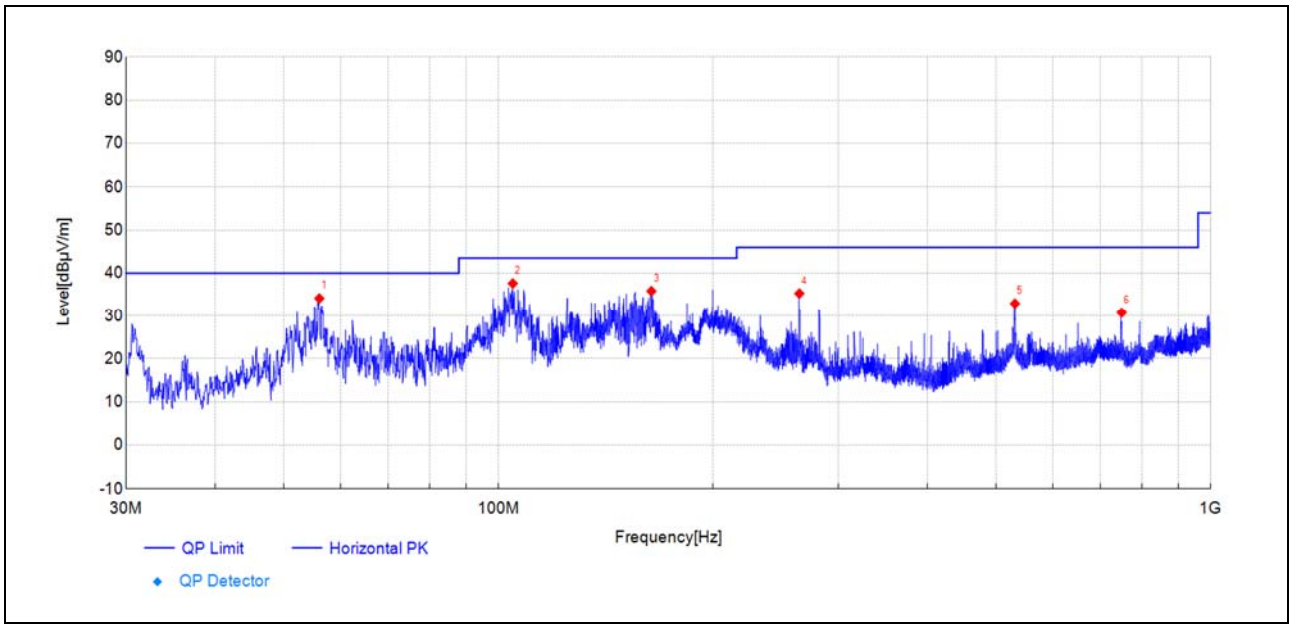
Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
30.63	66.4	35.65	-30.750	40.00	4.35	150	265	PK	PASS
62.50	64.7	35.96	-28.780	40.00	4.04	150	133	PK	PASS
90.43	64.9	33.38	-31.480	43.50	10.12	150	182	PK	PASS
163.96	63.9	32.86	-31.040	43.50	10.64	150	54	PK	PASS
532.82	49.2	30.20	-19.010	46.00	15.80	150	351	PK	PASS
946.16	39.4	28.34	-11.070	46.00	17.66	150	245	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

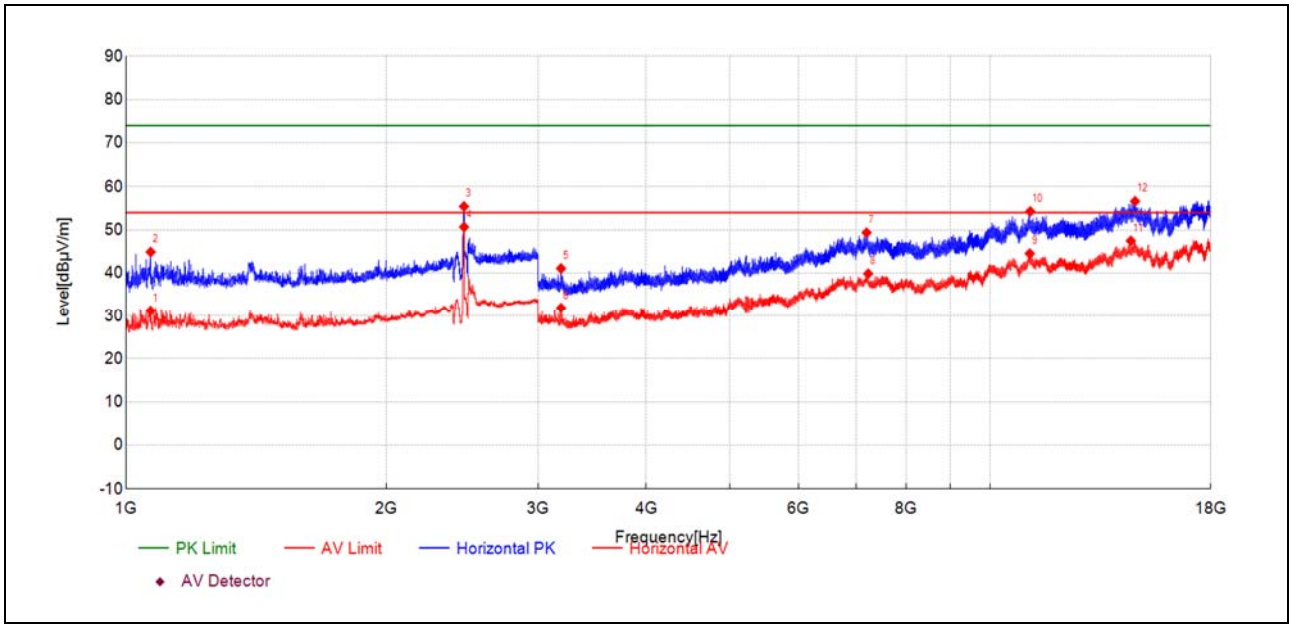
Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1062.81	34.5	31.83	-2.640	54.00	22.17	150	64	AV	PASS
1066.01	47.9	45.27	-2.620	74.00	28.73	150	69	PK	PASS
2433.49	47.1	52.80	5.720	-	-	150	174	PK	NA
2434.29	42.7	48.45	5.740	-	-	150	174	AV	NA
3648.45	50.5	41.74	-8.800	74.00	32.26	150	124	PK	PASS
4874.62	41.5	36.52	-4.970	54.00	17.48	150	70	AV	PASS
7537.42	44.0	48.52	4.560	74.00	25.48	150	31	PK	PASS
7594.42	34.5	39.40	4.900	54.00	14.60	150	138	AV	PASS
11186.38	30.6	44.11	13.560	54.00	9.89	150	96	AV	PASS
11593.96	40.2	54.70	14.480	74.00	19.30	150	83	PK	PASS
14541.76	36.7	56.73	20.030	74.00	17.27	150	259	PK	PASS
14600.05	26.7	47.05	20.340	54.00	6.95	150	4	AV	PASS

Plot for Channel 11



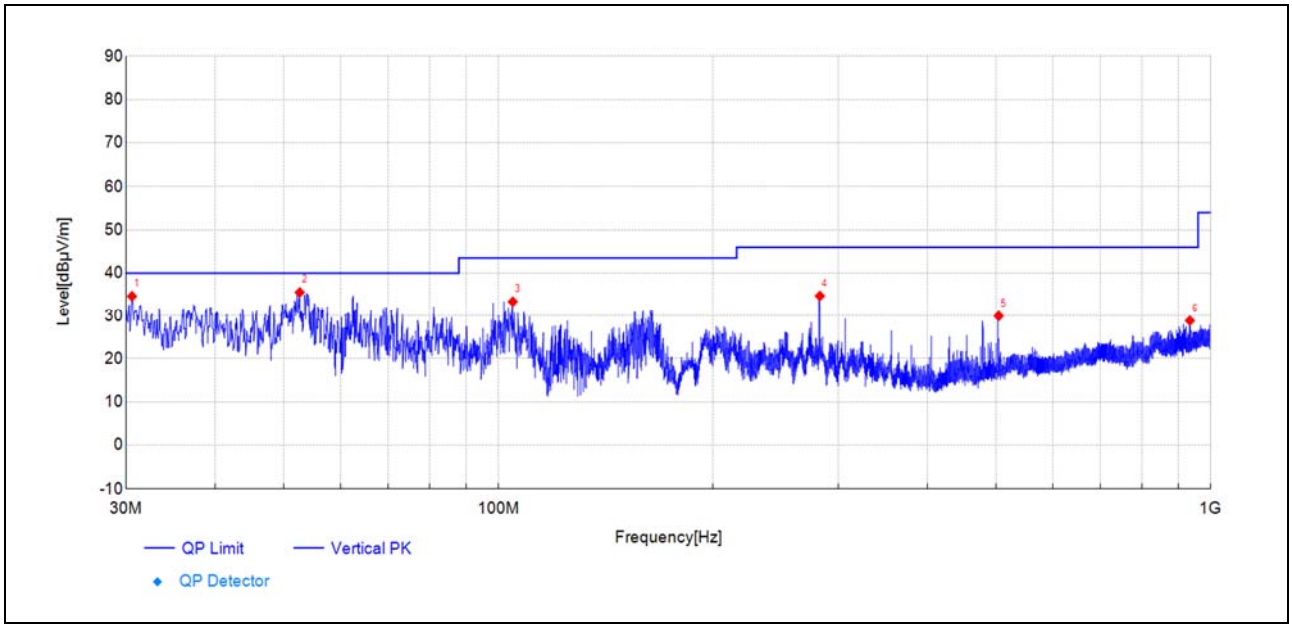
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
56.05	62.2	34.12	-28.050	40.00	5.88	150	359	PK	PASS
104.74	66.9	37.60	-29.300	43.50	5.90	150	296	PK	PASS
163.96	66.9	35.82	-31.040	43.50	7.68	150	178	PK	PASS
264.51	62.8	35.26	-27.490	46.00	10.74	150	9	PK	PASS
531.08	51.8	32.90	-18.930	46.00	13.10	150	157	PK	PASS
749.92	45.6	30.72	-14.840	46.00	15.28	150	157	PK	PASS



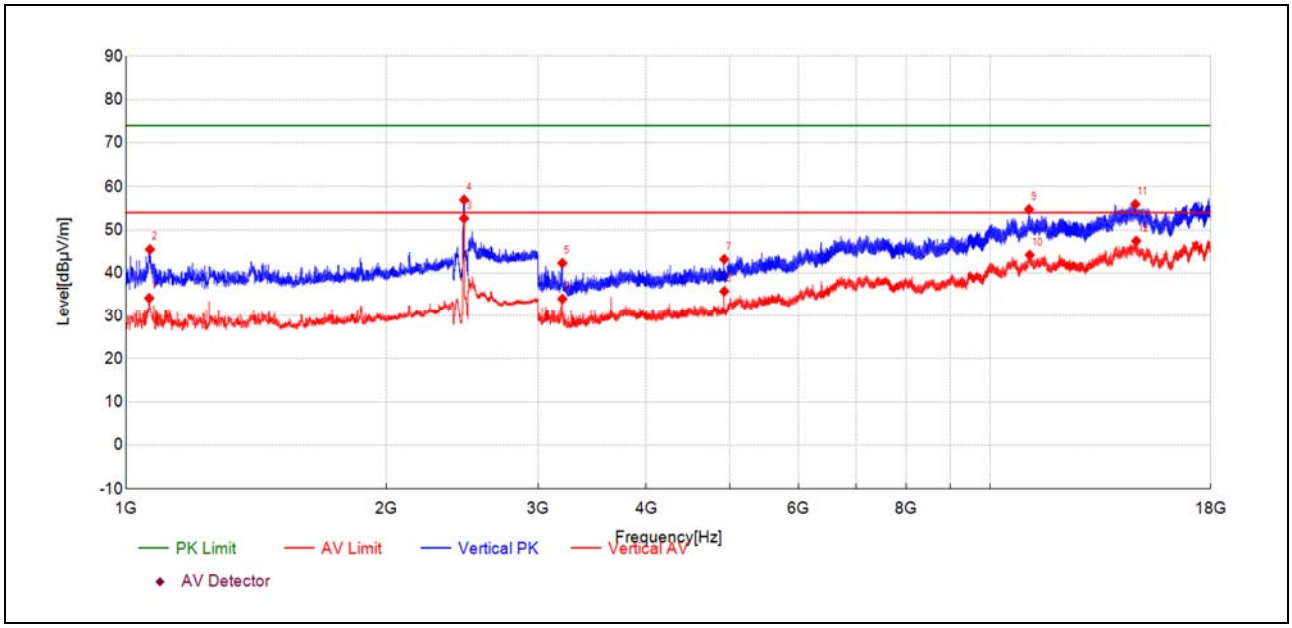
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1067.61	33.8	31.19	-2.600	54.00	22.81	150	69	AV	PASS
1068.01	47.5	44.90	-2.600	74.00	29.10	150	69	PK	PASS
2461.09	49.5	55.43	5.950	-	-	150	326	PK	NA
2461.49	44.8	50.69	5.940	-	-	150	326	AV	NA
3187.29	51.8	41.08	-10.730	74.00	32.92	150	43	PK	PASS
3187.72	42.6	31.85	-10.740	54.00	22.15	150	43	AV	PASS
7195.41	44.3	49.37	5.070	74.00	24.63	150	271	PK	PASS
7225.84	35.2	39.88	4.730	54.00	14.12	150	110	AV	PASS
11112.23	30.5	44.53	14.010	54.00	9.47	150	30	AV	PASS
11128.09	40.4	54.29	13.910	74.00	19.71	150	83	PK	PASS
14549.47	27.4	47.48	20.070	54.00	6.52	150	16	AV	PASS
14713.62	36.2	56.64	20.480	74.00	17.36	150	43	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
30.58	65.4	34.64	-30.750	40.00	5.36	150	340	PK	PASS
52.60	63.4	35.54	-27.850	40.00	4.46	150	261	PK	PASS
104.74	62.7	33.38	-29.300	43.50	10.12	150	129	PK	PASS
282.65	61.0	34.71	-26.310	46.00	11.29	150	275	PK	PASS
503.82	50.4	29.92	-20.470	46.00	16.08	150	157	PK	PASS
934.91	40.6	28.82	-11.760	46.00	17.18	150	129	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1063.61	36.8	34.17	-2.640	54.00	19.83	150	76	AV	PASS
1066.01	48.1	45.49	-2.620	74.00	28.51	150	81	PK	PASS
2461.49	46.7	52.66	5.940	-	-	150	152	AV	NA
2461.89	51.0	56.96	5.940	-	-	150	152	PK	NA
3198.43	53.1	42.31	-10.830	74.00	31.69	150	21	PK	PASS
3198.86	44.9	34.01	-10.840	54.00	19.99	150	35	AV	PASS
4923.91	48.2	43.22	-4.980	74.00	30.78	150	126	PK	PASS
4924.34	40.8	35.77	-4.980	54.00	18.23	150	126	AV	PASS
11092.95	40.8	54.75	13.990	74.00	19.25	150	60	PK	PASS
11114.80	30.2	44.20	14.000	54.00	9.80	150	351	AV	PASS
14725.62	35.6	55.94	20.380	74.00	18.06	150	139	PK	PASS
14760.76	27.4	47.45	20.070	54.00	6.55	150	35	AV	PASS

END OF REPORT